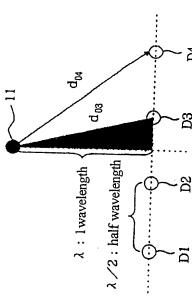


Fig. 1

CAL signal transmitting antenna



Receiving Receiving Receiving antenna antenna antenna Receiving antenna # 1

CAL signal transmitting antenna . Physical - Receiving antenna #4 distance  $d_{od}^2 = \lambda^2 + (\lambda/2 + \lambda/4)^2$ 

CAL signal tranmitting antenna . Physical - Receiving antenna #3 · distance  $d_{03}^2 = \lambda^2 + (\lambda/4)^2$ 

Phase variation arising over physical distance:

$$\frac{d_{0x}}{\lambda r r} \cdot 2\pi [rad]$$

Gain variation arising over physical distance:

$$10\log 10 \left( \frac{4 \pi d_{0x}}{\lambda rx} \right) [dB]$$

where, λ: Wavelength of transmit/receive intermediate frequency

λ rx: Receive frequency wavelength

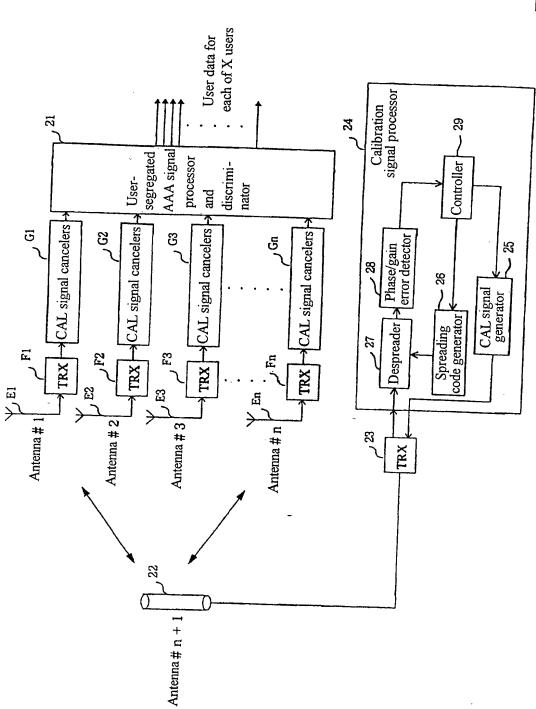


Fig. 3

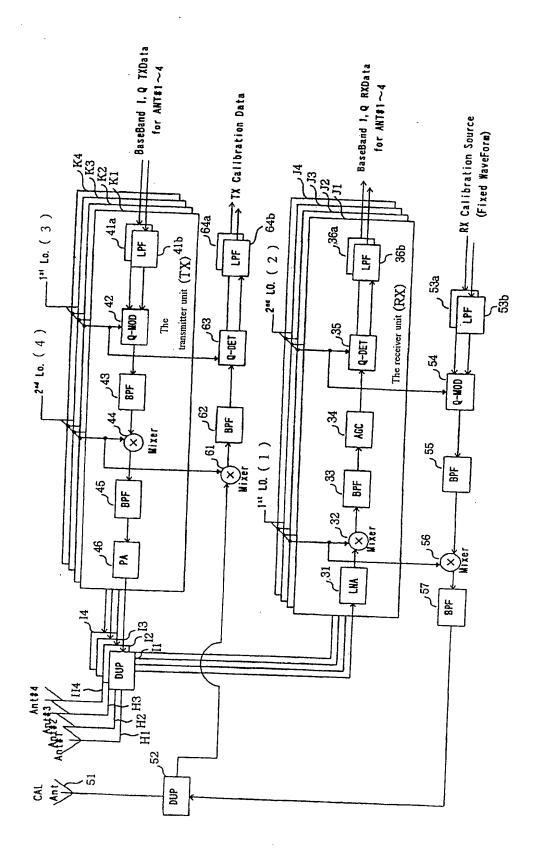


Fig. 4

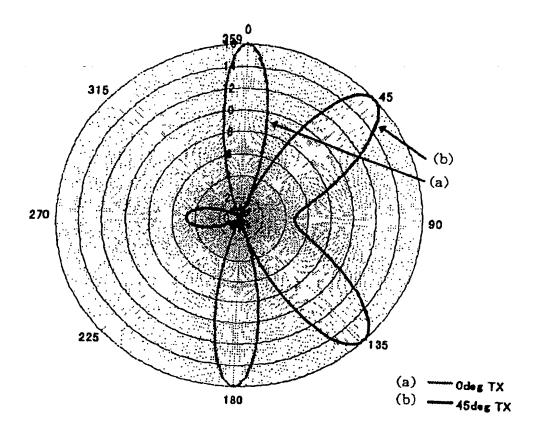


Fig. 5

S

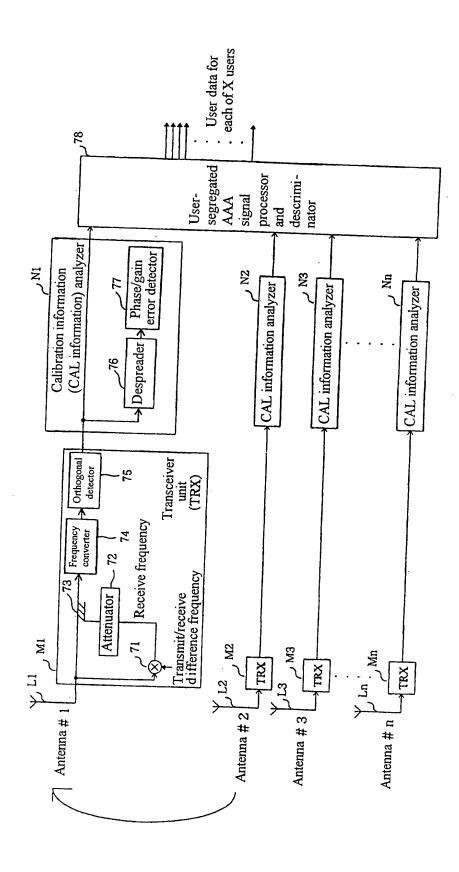


Fig. 6